(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 22 September 2005 (22.09.2005)

PCT

(10) International Publication Number WO 2005/087346 A1

(51) International Patent Classification: B01D 37/02

(21) International Application Number:

PCT/US2005/007091

(22) International Filing Date: 4 March 2005 (04.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/550,505 5 March 2004 (05.03.2004) US 60/621,421 22 October 2004 (22.10.2004) US 60/621,426 22 October 2004 (22.10.2004) US

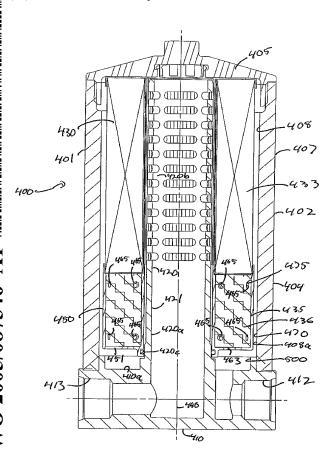
- (71) Applicant (for all designated States except US): DON-ALDSON COMPANY, INC. [US/US]; 1400 West 94th Street, P.O. Box 1299, Minneapolis, MN 55440-1299 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MANDT, Brian

[US/US]; 448 Hillwood Drive, Shakopee, MN 55379 (US). **GULSVIG, Brent, A.** [US/US]; 17465 Hunt Lake Trail, Faribault, MN 55021 (US). **HACKER, John, R.** [US/US]; 5614 Saint Andrews Avenue, Edina, MN 55424 (US).

- (74) Agent: BRUESS, Steven, C.; Merchant & Gould P.C., P.O. Box 2903, Minneapolis, MN 55402-0903 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: TOP LOAD LIQUID FILTER ASSEMBLY FOR USE WITH TREATMENT AGENT; AND, METHODS



(57) Abstract: A top load service cartridge including filter media and a treatment agent storage and release cartridge is provided. The cartridge is configured for diffusion of the treatment agent from the treatment agent storage and release cartridge, into liquid flowing through the filter arrangement. Methods of assembly and descriptions of use are provided.

WO 2005/087346 A1

WO 2005/087346 A1

ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report